

## ABSTRACT OF THE DISCLOSURE

An input reception unit of a design support apparatus receives input of a definition attribute name of a product to be designed. A definition attribute obtaining unit, control attribute obtaining unit and stress obtaining unit obtain parameter names usable for  
5 calculating a strength value and stress value, based on the definition attribute name. The input reception unit further receives input of parameter values of the parameter names. A strength calculation unit calculates a strength value of the product to be designed in accordance with a predetermined calculation procedure using the parameter value. The stress calculation unit calculates a value of stress applied to the product to be designed in  
10 accordance with a predetermined calculation procedure using the parameter value. The comparison report unit compares the strength value and the stress value, and reports report information associated with those values in a case where the comparison result satisfies a predetermined condition.